

In the Claims:

1. Canceled.
2. (Currently Amended) A four-wheel drive apparatus for a vehicle, comprising:
an engine for driving a front wheel shaft of the vehicle;
a generator connected to the engine for generating electric current;
a motor driven by the electric current supplied from the generator; and
a clutch interposed between the motor and a rear wheel shaft for transferring a
driving force thereto. ~~The four-wheel drive apparatus of claim 1,~~ further comprising:
a first speed sensor for detecting RPM of the front wheel shaft;
a second speed sensor for detecting RPM of the rear wheel shaft; and
a controller,
wherein the controller controls the motor based on a difference between the RPM of
the front wheel shaft and that of the rear wheel shaft.
3. (Original) The four-wheel drive apparatus of claim 2, further comprising:
a third speed sensor for detecting RPM of the motor,
wherein the controller controls the clutch based on a difference between the RPM of
the rear wheel shaft and that of the motor.
4. (Original) The four-wheel drive apparatus of claim 3, wherein the motor is controlled
in a PWM manner.
5. Canceled.
6. (Currently Amended) A four-wheel drive method for driving a rear wheel shaft in
addition to a front wheel shaft, comprising:
determining if four-wheel drive is required;
generating electric current utilizing a generator connected to an engine;
driving a motor with electric current supplied from the generator; and
driving the rear wheel shaft with a driving force transferred from the motor through a
clutch. ~~The four-wheel drive method of claim 5,~~ wherein the determining if four-wheel drive

is required comprises:

- detecting RPM of the front wheel shaft and the rear wheel shaft;
- computing a difference between the RPM of the front wheel shaft and that of the rear wheel shaft; and
- determining if the computed difference is higher than a predetermined value,
wherein if the difference between the RPM of the front wheel shaft and that of the rear wheel shaft is higher than the predetermined value, four-wheel drive is determined to be required.

7. (Original) The four-wheel drive method of claim 6, wherein the generating of electric current comprises:

- computing a torque of the motor required for compensating for the difference between the RPM of the front wheel shaft and that of the rear wheel shaft; and
- generating electric current based on the required torque.

8. (Original) The four-wheel drive method of claim 7, wherein the generating electric current is executed in a feedback control manner.

9. (Original) The four-wheel drive method of claim 7, wherein the driving of the motor with electric current supplied from the generator comprises:

- detecting RPM of the motor;
- applying stator current to a stator of the motor based on the RPM of the motor; and
- applying rotor current to a rotor of the motor with the generated electric current from the generator.

10. (Original) The four-wheel drive method of claim 9, wherein the driving of the rear wheel shaft with a driving force transferred from the motor comprises:

- determining if the RPM of the motor matches the RPM of the rear wheel shaft;
- connecting the motor to the rear wheel shaft through the clutch if the RPM of the motor matches the RPM of the rear wheel shaft; and
- accelerating the motor if the RPM of the motor does not yet match the RPM of the rear wheel shaft .